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NOTICE OF ALLOWANCE AND FEE(S) DUE

26161

7590

08/22/2008

FISH & RICHARDSON PC P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022 EXAMINER

PARTHASARATHY, PRAMILA

ART UNIT PAPER NUMBER

2136

DATE MAILED: 08/22/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/701,400	11/03/2003	Anne Elizabeth Dudfield	12221-018001	6347	

TITLE OF INVENTION: DETECTION OF UNAUTHORIZED ACCESS IN A NETWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	11/24/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance of nerwise in Block 1, by (a	rders and notification a) specifying a new co	of m orresp	pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corresp rate "F	pondence address as FEE ADDRESS" for
CURRENT CORRESPOND		Fee(:	s) Transmittal. Thi rs. Each additiona	s certif I paper	g can only be used for icate cannot be used for such as an assignmentalling or transmission.	or any	other accompanying		
FISH & RICH P.O. BOX 1022 MINNEAPOLIS			Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.						
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	ГOR		ATTO	RNEY DOCKET NO.	CON	FIRMATION NO.
10/701,400 TITLE OF INVENTION	11/03/2003 I: DETECTION OF UNA	AUTHORIZED ACCESS	Anne Elizabeth Dudfi IN A NETWORK	ield			12221-018001		6347
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	Т	DATE DUE
nonprovisional	YES	\$720	\$300		\$0	\$1020		11/24/2008	11/24/2008
EXAM	EXAMINER ART UNIT		CLASS-SUBCLASS						
PARTHASARATHY, PRAMILA 2136			726-025000						
PLEASE NOTE: Un	registered attorney or agent) and the names of up to								
(A) NAME OF ASSI	GNEE riate assignee category or	categories (will not be pa	(B) RESIDENCE: (C	ITY	and STATE OR C	orporati	on or other private gro		·
4a. The following fee(s) Issue Fee Publication Fee (N	 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 								
5. Change in Entity Sta	i tus (from status indicated ns SMALL ENTITY statu		h Applicant is no	lone	er claiming SMAI	LEN	ГІТҮ status. See 37 CI	FR 1.25	7(g)(2)
NOTE: The Issue Fee an	nd Publication Fee (if rea	uired) will not be accepte	d from anyone other th	-	-				
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P.O. BOX 1022			ART UNIT	PAPER NUMBER	
MINNEAPOLIS, MN 55440-1022			2136		
			DATE MAIL ED: 08/22/200	18	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 910 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 910 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
Notice of Allowability	10/701,400 Examiner	DUDFIELD ET AL. Art Unit					
Notice of Allowalding	Examiner	Art offic					
	PRAMILA PARTHASARATHY	2136					
The MAILING DATE of this communication appearable All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS					
1. 🔀 This communication is responsive to <u>Amendment After Fin</u>	al filed on 8/1/2008.						
2. The allowed claim(s) is/are <u>1-10,12-21,23-32; Renumbered</u>	<u>d as 1-30</u> .						
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	be been received. be been received in Application No						
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give							
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.						
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO	-948) attached					
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the 0	Office action of					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t							
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT							
Attachment(s)	E Nation of Information	Datant Annibastian					
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	5. ☐ Notice of Informal F						
	Paper No./Mail Da	6. ☐ Interview Summary (PTO-413), Paper No./Mail Date					
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	ment/Comment						
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 8. ☒ Examiner's Statement of Reasons for Allowance							
	9. Other						
/Pramila Parthasarathy/ Primary Examiner, Art Unit 2136 August 14, 2008							

Response to Arguments

Applicant's arguments filed on 8/01/2008, with respect to Claims 1-33 have been fully considered and are persuasive. The obviousness-type double patenting of Claims 1-33 has been withdrawn and in view of amended independent claims, the prior are rejections has been withdrawn.

Allowable Subject Matter

Claims 1-10, 12-21 and 23-32 are allowed. Claims are renumbered as 1-30.

The following is an examiner's statement of reasons for allowance: The Admitted prior art Gupta et al. (U.S. Patent 7,234,168) disclose "A method of provisioning a computer against computer attacks includes constructing a hierarchy characterizing different computer attacks and counter measures, and traversing this hierarchy to identify computer attacks and countermeasures relevant to a target platform. Detection and protection measures are collected in response to this traversing. These detection and protection measures are then downloaded to a security sensor associated with the target platform".

However, the admitted prior arts do not disclose, teach or suggest "retrieving connection pairs from a connection table for a host that is attempting to gain access to another host in a networked computer system;

determining whether that one host attempting to gain access has accessed the other host accessed previously; and if that one host has not accessed the other host previously,

determining if other anomalies in the connection patterns of each host exist to establish an event severity level indicating a likelihood that the host attempting to access another host is attempting an unauthorized access.

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determining whether conditions exit to decrease the severity level assigned to an event; and if an event is still indicated,

sending an event warning message with a determined level of severity to an operator".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Denis G. Maloney (Registration number 29,670) on August 14, 2008.

IN THE CLAIMS:

1. (Amended) A computer implemented method comprising:

retrieving connection pairs from a connection table for a host that is attempting to gain access to another host in a networked computer system;

determining whether that one host attempting to gain access has accessed the other host accessed previously; and if that one host has not accessed the other host previously,

determining if other anomalies in the connection patterns of each host exist to establish an event severity level indicating a likelihood that the host attempting to access another host is attempting an unauthorized access.

determining whether conditions exit to decrease the severity level assigned to an event; and if an event is still indicated,

sending an event warning message with a determined level of severity to an operator.

11. (cancelled)

12. (Amended) A computer program product embodied on a computer readable medium for detecting unauthorized access in a computer network comprising instructions for causing a computing device to:

retrieve connection pairs from a connection table for a host that is attempting to gain access to another host:

determine whether that one host attempting to gain access has accessed the other host accessed previously; and if that one host has not accessed the other host previously,

determine if other anomalies in the connection patterns of each host exist to establish an event severity level indicating a likelihood that the host attempting to access another host is attempting an unauthorized access.

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determining whether conditions exit to decrease the severity level assigned to an event; and if an event is still indicated,

sending an event warning message with a determined level of severity to an operator.

22. (cancelled)

23. (Amended) Apparatus comprising:

a processing device;

a memory;

a computer readable medium storing a computer program product for detecting unauthorized access in a computer network comprising instructions for causing the device to:

retrieve connection pairs from a connection table for a host that is attempting to gain access to another host:

determine whether that one host attempting to gain access has accessed the other host accessed previously; and if that one host has not accessed the other host previously,

determine if other anomalies in the connection patterns of each host exist to establish an event severity level indicating a likelihood that the host attempting to access another host is attempting an unauthorized access.

determining whether conditions exit to decrease the severity level assigned to an event; and if an event is still indicated,

sending an event warning message with a determined level of severity to an operator.

33. (cancelled)

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to PRAMILA PARTHASARATHY whose telephone number is (571)272-3866. The examiner can normally be reached on 8:00a.m. to 5:00p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Pramila Parthasarathy/ Primary Examiner, Art Unit 2136 August 14, 2008